



US 20160174088A1

(19) **United States**(12) **Patent Application Publication**
Yilmaz et al.(10) **Pub. No.: US 2016/0174088 A1**(43) **Pub. Date: Jun. 16, 2016**(54) **DISTRIBUTED SMALL-CELL SEARCH****H04W 48/16** (2006.01)**H04W 24/10** (2006.01)(71) Applicant: **Nokia Technologies Oy**, Espoo (FI)(52) **U.S. Cl.**(72) Inventors: **Osman Yilmaz**, Espoo (FI); **Mikko Uusitalo**, Helsinki (FI); **Carl Wijting**, Espoo (FI)CPC **H04W 24/08** (2013.01); **H04W 24/10** (2013.01); **H04W 36/0083** (2013.01); **H04W 48/16** (2013.01); **H04W 84/045** (2013.01)(73) Assignee: **Nokia Technologies Oy**, Espoo (FI)

(57)

ABSTRACT(21) Appl. No.: **14/910,181**(22) PCT Filed: **Aug. 6, 2013**(86) PCT No.: **PCT/US13/53827**

§ 371 (c)(1),

(2) Date: **Feb. 4, 2016****Publication Classification**(51) **Int. Cl.****H04W 24/08** (2006.01)**H04W 36/00** (2006.01)

Methods and apparatus, including computer program products, are provided for distributed small cell scanning. In some example embodiments, the method may include receiving, at a first user equipment, an indication to perform a distributed scan for one or more carrier frequencies with at least a second user equipment proximate to the first user equipment; performing, by the first user equipment in response to the received indication, the distributed scan by measuring a first carrier frequency during a first time period; and sending a measurement report of the first carrier frequency, when detected by the first user equipment. Related apparatus, systems, methods, and articles are also described.

100